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Querying web distributed databases for XML-based E-businesses: requirement analysis, design, and implementation

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↑ ABSTRACT

Electronic Commerce (EC) business models like e-brokers on the Web use XML databases such as product and customer data. To flexibly model such applications, we need a modeling language for EC businesses, that is, business processes. To this end, we have adopted a query language approach to modeling and have designed a query language for distributed XML databases called XBML suitable for EC businesses. In this paper, we discuss the requirements for an XML query language for supporting EC business models and explain the functionality of XBML by specifying e-broker models and describe the implementation of the XBML server.

↑ REFERENCES

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- 1 Allaire Corporation: CFML,
http://www.allaire.com/documents/cf4/CFML_Language_Reference/contents.htm, 2000
- 2 Chia-Hui Chang , Ching-Chi Hsu, [Enabling Concept-Based Relevance Feedback for Information Retrieval on the WWW, IEEE Transactions on Knowledge and Data Engineering, v.11 n.4, p.595-609, July 1999](#) [doi>[10.1109/69.790812](https://doi.org/10.1109/69.790812)]
- 3 Jim Conallen, [Modeling Web application architectures with UML, Communications of the ACM, v.42 n.10, p.63-70, Oct. 1999](#) [doi>[10.1145/317665.317677](https://doi.org/10.1145/317665.317677)]

- 4 Web Mining: Information and Pattern Discovery on the World Wide Web, Proceedings of the 9th International Conference on Tools with Artificial Intelligence, p.558, November 03-08, 1997
- 5 Deutsch, A., et al.: XML-QL: A Query Language for XML,
<http://www.w3.org/TR/1998/NOTE-xml-q1-19980819>, 1998
- 6 Goldman, R., McHugh, J., and Widom, J.: From Semistructured Data to XML: Migrating the Lore Data Model and Query Language, Proc. the 2nd Intl. Workshop on the Web and Databases (WebDB '99), 1999.
- 7 Hiroshi Ishikawa , Yasuo Yamane , Yoshio Izumida , Nobuaki Kawato, An Object-Oriented Database System Jasmine: Implementation, Application, and Extension, IEEE Transactions on Knowledge and Data Engineering, v:8 n.2, p.285-304, April 1996
[doi>[10.1109/69.494167](https://doi.org/10.1109/69.494167)]
- 8 Ishikawa, H., et al.: <http://www.w3.org/TandS/QL/QL98/pp/flab.doc>, 1998
- 9 Document Warehousing Based on a Multimedia Database System, Proceedings of the 15th International Conference on Data Engineering, p.168, March 23-26, 1999
- 10 Dawn Jutla , Peter Bodorik , Catherine Hajnal , Charles Davis, Making Business Sense of Electronic Commerce, Computer, v.32 n.3, p.67-75, March 1999
[doi>[10.1109/2.751331](https://doi.org/10.1109/2.751331)]
- 11 Microsoft: ASP, <http://www.activeserverpages.com>, 2000
- 12 Robie, J., et al.: XML Query Language (XQL),
<http://www.w3.org/TandS/QL/QL98/pp/xql.html>, 1998
- 13  Paul Resnick , Hal R. Varian, Recommender systems, Communications of the ACM, v.40 n.3, p.56-58, March 1997 [doi>[10.1145/245108.245121](https://doi.org/10.1145/245108.245121)]
- 14  Tomás Isakowitz , Michael Bieber , Fabio Vitali, Web information systems, Communications of the ACM, v.41 n.7, p.78-80, July 1998 [doi>[10.1145/278476.278490](https://doi.org/10.1145/278476.278490)]
- 15 Sun Microsystems: JSP, <http://java.sun.com/products/jsp/index.html>, 2000

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